IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of.: SEBIRE et al.   **Group No.:**
Serial No.:
Filed: Herewith   **Examiner:**
For: METHOD AND ARRANGEMENT FOR USING A SELECTED SIGNAL PROCESSING
SCHEME TO CARRY INFORMATION

Commissioner of Patents and Trademarks
Washington, D.C. 20231

TRANSMITTAL OF CERTIFIED COPY

Attached please find the certified copy of the foreign application from which priority is claimed for
this case:

Country   : Finland
Application Number   : 991414
Filing Date   : 21 June 1999

WARNING: "When a document that is required by statute to be certified must be filed, a copy, including a
photocopy or facsimile transmission of the certification is not acceptable." 37 CFR 1.4(f) (emphasis added.)

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NOTE: The claim to priority need be in no special form and may be made by the attorney or agent if the foreign
application is referred to in the oath or declaration as required by § 1.63.

(Transmittal of Certified Copy [5-4])

E T U O I K E U S T O D I S T U S
P R I O R I T Y   D O C U M E N T

Hakija Applicant	**Nokia Mobile Phones Ltd** **Espoo**
Patenttihakemus nro Patent application no	**991414**
Tekemispäivä Filing date	**21.06.1999**
Kansainvälinen luokka International class	**H04L**
Keksinnön nimitys Title of invention	

**"Method and arrangement for using a selected signal processing scheme
to carry information"**
**(Menetelmä ja järjestely tietyn signaalinkäsittelymetodin käyttämiseksi
informaation välittämiseen)**

Täten todistetaan, että oheiset asiakirjat ovat tarkkoja jäljennöksiä
patentti- ja rekisterihallitukselle alkuaan annetuista selityksestä,
patenttivaatimuksista, tiivistelmästä ja piirustuksista.

This is to certify that the annexed documents are true copies of the
description, claims, abstract and drawings originally filed with the
Finnish Patent Office.

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Method and arrangement for using a selected signal processing scheme to carry information

Menetelmä ja järjestely tietyn signaalinkäsittelymetodin käyttämiseksi
5   **informaation välittämiseen**

Metod och arrangemang för att utnyttja ett särskilt förfaringssätt i signalhantering för att förmedla information

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The invention concerns generally the technological field of conveying digital information over a wireless interface from a transmitting device to a receiving device. Especially the invention concerns the use of a certain selected signal processing scheme to carry meaningful information.
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In standardized digital wireless systems like digital cellular radio networks there is a standardized form for each message that a transmitting device is allowed to transmit over the wireless interface to the receiving device. Due to the limited number of available transmission frequencies and the requirements for minimized delays each
20   message should be as compact as possible. This has resulted in difficulties when extensions and additions to the existing standards are made afterwards.

In digital wireless systems the contents of all messages are basically sequences of bits with a limited sequence length. The specifications usually reserve some
25   otherwise unspecified bit combinations for future additions and extensions, but it may happen that in the future so many additions and extensions are made that these simply run out. In such a situation it is usually required that a completely new kind of a message is specified, which has serious implications in the form of required upgrading of system hardware and software.
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As an example we will examine the known packet access burst format which is defined in the specifications of the GSM system (Global System for Mobile telecommunications) for the use of mobile stations when they want to request resources for a dedicated packet data channel. The definition of a packet access
35   burst covers 157 consecutive bits according to Table I.